

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Laser welding method for the assembly of metal parts arranged in the shape of a T, the stem of the T being formed of a stem plate with parallel surfaces, the assembly only being accessible from the head side of the T, through an external surface, the method comprising the following phases:

T assembly of parts adjacent to each other,
laser welding of the assembly through the outer surface of the T head, by two welds made at the same time and with welding axes parallel to each other and perpendicular to the top surface of the head of the T, such that ~~each~~ a first axis of the two welding axes is tangent to ~~one~~ a first surface of the parallel surfaces of the stem plate and a second axis of the two welding axes is tangent to a second surface of the parallel surfaces of the stem plate forming the stem of the T.

Claim 2 (Previously Presented): Laser welding method according to claim 1, wherein the two welds are made simultaneously with a bifocal welding head.

Claim 3 (Previously Presented): Laser welding method according to claim 1, wherein the stem plate is provided with tabs with a determined length and thickness, and the assembly includes a second part called the head part forming the head of the T and provided with slots with length and thickness corresponding to the dimensions of the tabs.

Claim 4 (Previously Presented): Laser welding method according to claim 3, wherein the height of the tabs is slightly more than the thickness of the head part.

Claim 5 (Previously Presented): Laser welding method according to claim 1, wherein the head of the T is formed of two plates installed perpendicular to the plate of the T stem and with their edge in contact with the stem plate.

Claim 6 (Currently Amended): A method for welding a first part to a second part, said first part having a plate with a first surface and a second surface, wherein said first and second surfaces are opposite each other, the method comprising the following steps:

positioning each of said first and second surfaces of said first part adjacent to said second part;

generating a first laser beam and a second laser beam, wherein said first and second laser beams are parallel to each other; and

directing the first beam so as to produce a first weld between the first surface of said first part and said second part, and simultaneously directing the second beam so as to produce a second weld between the second surface of said first part and said second part,

wherein said directing step is performed so that said first beam is tangent to said first surface of said first part and said second beam is tangent to said second surface of said first part.

Claim 7 (Previously Presented): The method according to Claim 6, wherein said first and second parts are made of metal.

Claim 8 (Previously Presented): The method according to Claim 6, wherein said first and second parts are configured to form a T-shaped assembly.

Claim 9 (Previously Presented): The method according to Claim 8, wherein said first part is a stem for said T-shaped assembly.

Claim 10 (Previously Presented): The method according to Claim 6, wherein said first and second surfaces of said plate are parallel to each other.

Claim 11 (Previously Presented): The method according to Claim 8, wherein said T-shaped assembly is only accessible from a head side of the T-shaped assembly.

Claim 12 (Previously Presented): The method according to Claim 11, wherein said T-shaped assembly is only accessible through an external surface of said head side of said T-shaped assembly.

Claim 13 (Previously Presented): The method according to Claim 6, wherein said step of positioning comprises assembling said first and second parts into a T-shaped assembly.

Claim 14 (Previously Presented): The method according to Claim 6, wherein said step of positioning comprises inserting said first and second surfaces of said first part into a slot of said second part.

Claim 15 (Previously Presented): The method according to Claim 8, wherein said directing step is performed through an outer surface of a head side of said T-shaped assembly.

Claim 16 (Previously Presented): The method according to Claim 6, wherein said generating step is performed so that said first and second laser beams are separated from each other by a distance equal to a thickness of said plate of said first part.

Claim 17 (Canceled)

Claim 18 (Previously Presented): The method according to Claim 6, wherein said directing step is performed so that said first and second beams are perpendicular to a surface of said second part.

Claim 19 (Previously Presented): The method according to Claim 8, wherein said directing step is performed so that said first and second beams are perpendicular to a top surface of a head side of the T-shaped assembly.

Claim 20 (Previously Presented): The method according to Claim 6, wherein said first and second welds are produced along lengths of said first and second parts with a single pass of a laser over said lengths.

Claim 21 (Previously Presented): The method according to Claim 6, wherein said directing step is performed so that said first beam is parallel to said first surface of said first part and said second beam is parallel to said second surface of said first part.

Claim 22 (Previously Presented): The method according to Claim 6, wherein the first part comprises tabs and the second part comprises slots, each slot having a length and a thickness corresponding to a length and a thickness of a tab.

Claim 23 (Previously Presented): The method according to Claim 22, wherein each of the tabs has a height greater than a thickness of the second part.

Claim 24 (Previously Presented): The method according to Claim 6, wherein the second part comprises two plates and said positioning step is performed so as to place said two plates perpendicular to and in contact with the plate of the first part.